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From: Chammas, Guy A CIV
Sent: Wednesday, August 15, 2018 10:29
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Subject: Additional Groundwater Sampling for PFAS near Former MCAS El Toro
Attachments: Figure 15.pdf; Figure12.pdf; Figure14.pdf; MCAS El Toro Area_PFOA+PFOS_Map_08-07-18.pdf; GW Model Particle Tracking.pdf
Signed By: GUY.CHAMMAS@NAVY.MIL

Jennifer, Mary, and Patricia:

As I have been informing you over the last several months, the Navy has been having discussions with Irvine Ranch Water District (IRWD) and Orange County Water District (OCWD) regarding PFAS detections at and in the vicinity of Former MCAS El Toro. One of the Navy's action items from our latest meeting on 7 August 2018 was to collect groundwater samples from multiple screened intervals in monitoring wells 18BGMW19 and 18BGMP06. The locations of these wells are shown on attached Figure 15. For context, I have also attached a diagram prepared by OCWD that includes the PFOA+PFOS results from its sampling of various wells in the region and Figures 12 and 14 from the Navy's November 2017 Tech Memo depicting results from PFAS sampling in July 2017 at IRP Sites 18 and 24.

Although OCWD has sampled the closest drinking water production well (b) (9) at least twice since 2016 for PFAS with non-detect results, given the locations of previous PFAS detections in the Shallow Groundwater Unit (SGU) and Principal Aquifer (PA), the generally west-northwesterly groundwater flow directions in both the SGU and PA, and particle tracking results from the current IRP Sites 18 & 24 groundwater flow model showing movement toward production well (b) (9) (see attached), the Navy, IRWD, and OCWD believe it is prudent to sample monitoring wells 18BGMW19 and 18BGMP06, which are located between the areas of known PFAS detections in the SGU and PA and production well (b) (9). Both monitoring wells 18BGMW19 and 18BGMP06 have 3 ports/screens in the PA and 2 ports/screens in the SGU, and the Navy will attempt to sample all of these intervals for PFAS analysis via liquid chromatography/tandem mass spectrometry compliant with the U.S. Department of Defense (2017) Quality Systems Manual, Version 5.1, Table B-15.

The Navy plans to collect these samples as part of its regularly scheduled groundwater monitoring event for IRP Sites 18 and 24 in September. OCWD may conduct split sampling. Because our contractor's SAP does not currently address PFAS sampling and analysis, the Navy plans on issuing a Field Change Request (FCR) to include the rationale for this PFAS sampling as well as the pertinent sampling and testing Standard Operating Procedures and amended SAP worksheets. We would like to request that you accommodate an expedited review of the FCR when submitted on or about 31 August 2018.

The Navy will continue to proactively address the regional PFAS issue in cooperation with IRWD and OCWD and will share the results of the analysis in a general manner before they are validated and in a more formal manner after they are validated. If you have any questions or concerns about our plan, please contact me at your convenience. Thanks for your continued support.

Guy Chammas, MS, PG, CPSS

Lead Remedial Project Manager

Former Marine Corps Air Stations El Toro and Tustin

U.S. Department of the Navy

Base Realignment and Closure Program Management Office West

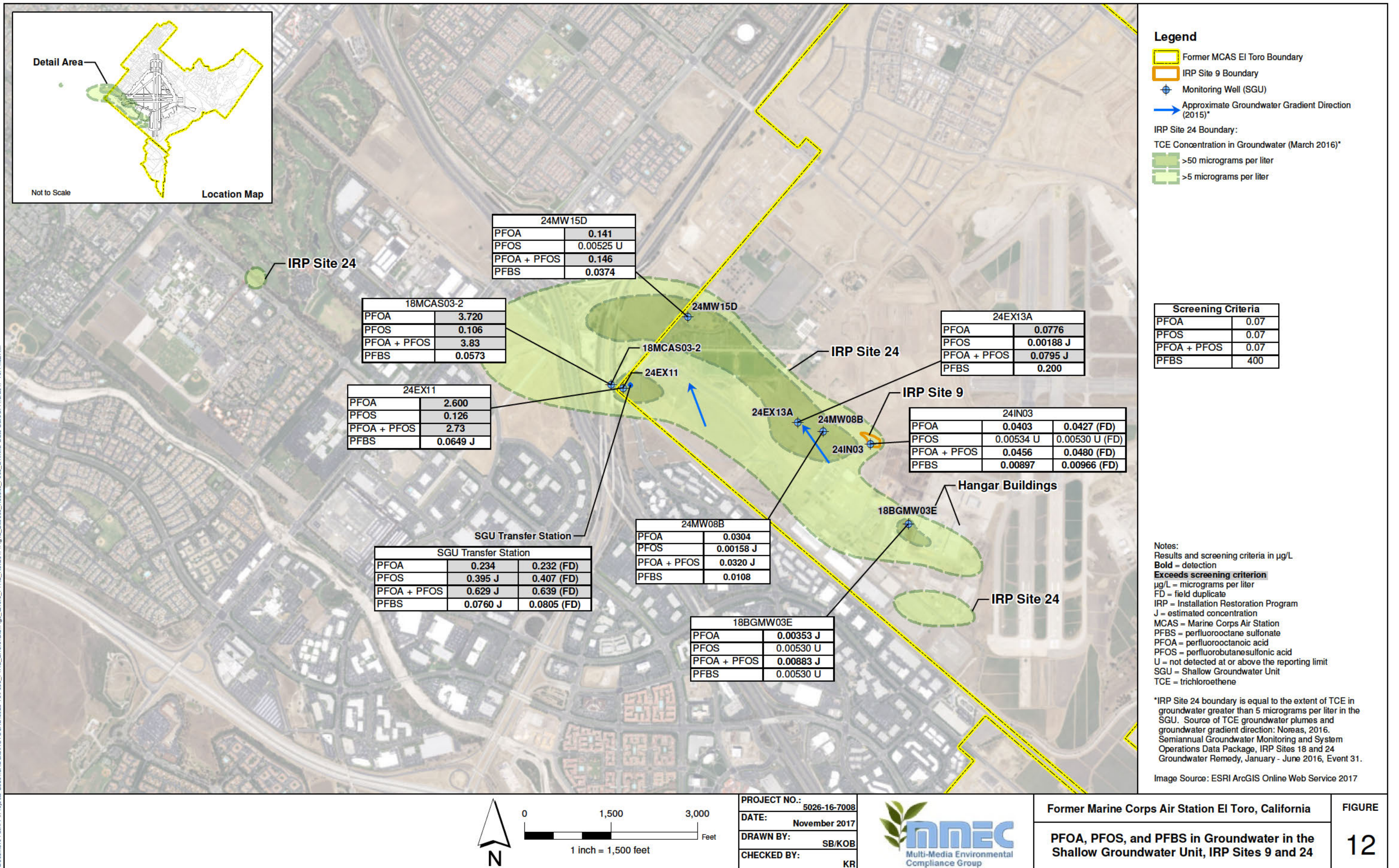
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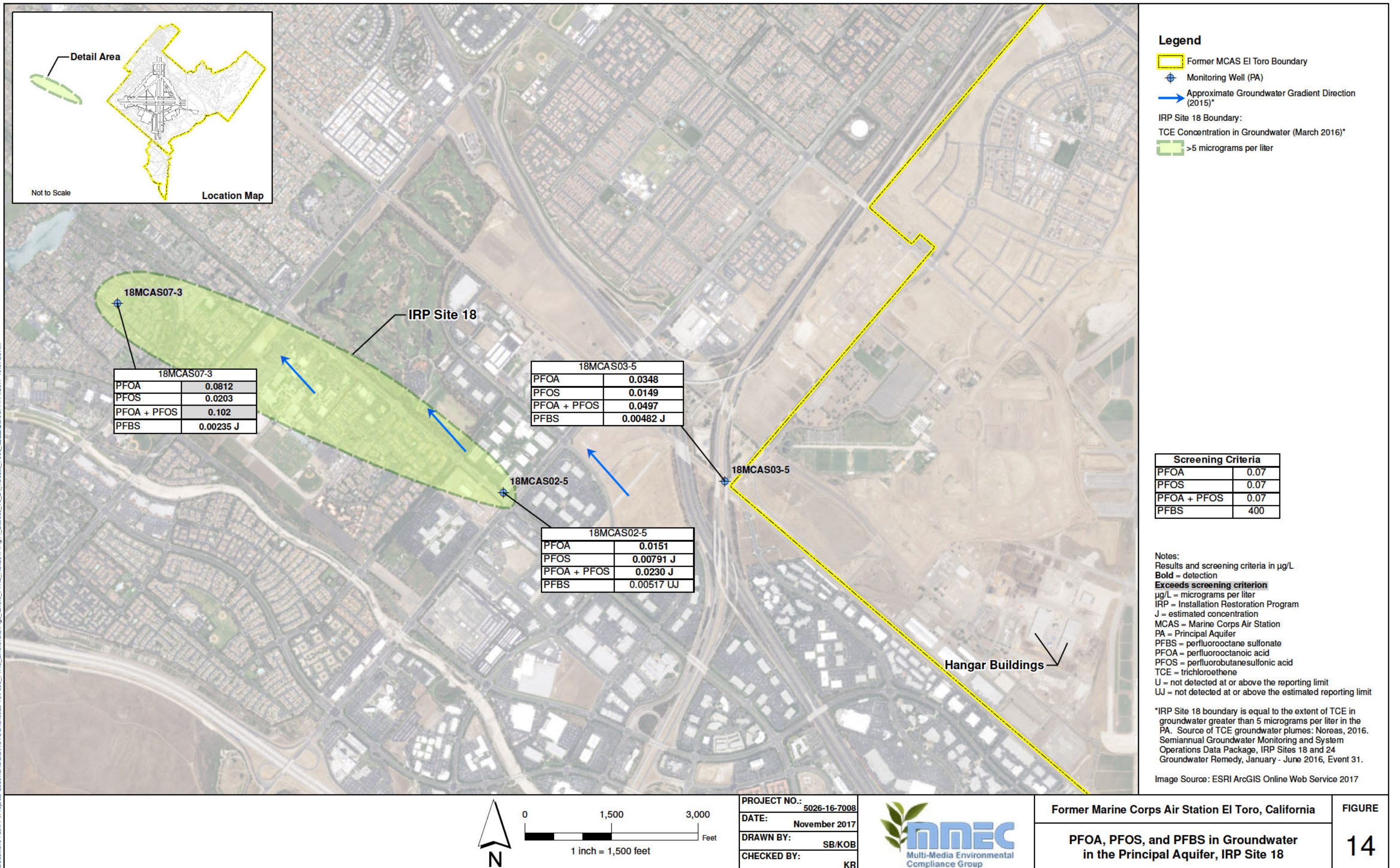
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